## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 6,890,935 B2 APPLICATION NO. : 09/845526

). : 09/845526 - : May 10, 2004

DATED : May 10, 2005

INVENTOR(S) : Gary Maurice Dull et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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On the Title page, #56 under U.S. Patent Documents, the following should be added,

5,212,188	05/1993	Caldwell	514/343
5,217,975	06/1993	Wadsworth	514/299
5,219,849	06/1993	Lotti	514/214
5,276,043	01/1994	Lippiello	514/343
5,346,906	09/1994	Baker	514/305
5,510,355	04/1996	Bencherif	514/305
5,583,140	12/1996	Bencherif	514/299
5,597,919	01/1997	Dull	544/242
5,604,231	02/1997	Smith	514/256
5,616,707	04/1997	Crooks	544/242
5,616,716	04/1997	Dull	546/300
5,663,356	09/1997	Ruecroft	546/300
5,780,734	07/1998	Goulet	514/19
5,811,442	09/1998	Bencherif	514/384
5,824,692	10/1998	Lippiello	514/343
5,849,764	12/1998	Goulet	514/337
5,852,041	12/1998	Cosford	514/351
5,859,004	01/1999	Olesen	514/214
5,861,423	01/1999	Caldwell	514/351
5,952,339	09/1999	Bencherif	514/294

On the Title page, #56 under Foreign Patent Documents, the following should be added,

WO WO 94/08992 04/1994 WO WO 94/14805 07/1994 WO WO 95/03306 02/1995 WO WO 96/12711 05/1996 WO WO 97/01556 01/1997 WO WO 97/11072 03/1997 WO WO 98/25619 06/1998 WO WO 98/54181 12/1998

WO WO 99/00385 01/1999 WO WO 99/32117 07/1999

WO WO 00/34276 06/2000

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INVENTOR(S) : Gary Maurice Dull et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title page, #56 under Other Publications, the following should be added,

Barnes, P.J., "Molecules in Focus Nuclear Factor-KB," Int. J. Biochem. Cell. Biol., 29(6): 867-870 (1997).

Birtwistle, J., "The Role of Cigarettes and Nicotine in the Onset and Treatment of Ulcerative Colitis," Postgrad. Med., J., 72: 714-718 (1996).

Ebadi, et al., "Neurotophins and Their Receptors in Nerve Injury and Repair," Neurochem., Int., 30(4/5): 347-374 (1997).

Hanisch, et al., "Modulation of Hippocampal Acetylocholine Release: A Potent Central Action of Interleukin-3," *The Journal of Neuroscience*, 13(8): 3368-3374 (1993).

Holladay, et al., "Neuronal Nicotinic Acetylcholine Receptors as Targets for Drug Discovery," J. Med. Chem., 40(26): 4169-4194 (1997).

Miller, J.G., "Neural-Immune Interactions in Sympathetic Ganglia," TINS, 16(10): 419-423 (1993).

Madretsma, et al., "In-Vivo Effect of Nicotine on Cytokine Production by Human Non-Adherent Mononuclear Cells," European J. of Gastroen. & Hepat., 8(10): 1017-1020 (1996).

Madretsma, et al., "Nicotine Inhibits the In Vitro Production of Interleukin 2 and Tumour Necrosis Factor a by Human Mononuclear Cells," Immunopharmacology, 35: 47-51 (1996).

Matthys, P. and A. Billiau, "Cytokines and Cachexia," Nutrition, 13: 763-770 (1997).

Olesen, et al., "Identification of Novel (Isoxazole) Methylene-1-Azabicyclic Compounds with High Affinity for the Central Nicotinic Cholinergic Receptor," Bioorganic & Medicinal Chemistry Letters, 7(15): 1963-1968 (1997).

Olivio, et al., "Syntheses of New Open-Ring and homo-Epibatidine Analogues from Tropinone," J. Org. Chem., 64(13): 4966-4968 (1999).

On the Title page, #56 under Other Publications, the following should be added,

Peacock, et al., "The Effect of Nicotine on Reproduction and Attachment of Human Gingival Fibroblasts in Vitro," J. Periodontal, 64(7): 658-665 (1993).

Pullan, R.D., "Colonic Mucus, Smoking and Ulcerative Colitis," Ann R. Coll. Surg. Engl., 78: 85-91 (1996).

Pullan, et al., "Transdermal Nicotine for Active Ulcerative Colitis," The New England Journal of Medicine, 330(12): 811-815 (1994).

Sandborn, et al., "Nicotine Tartrate Liquid Enemas for Mildly to Moderately Active Left-Sided Ulcerative Colitis Unresponsive to First-Line Therapy: A Pilot Study," Ailment Pharmacol. Ther., 11: 663-671 (1997).

Balfour, S.R., "Pathogenesis and Immune Mechanisms of Chronic Inflammatory Bowel Diseases," The American Journal of Gastroenterology, "92(12): 5S-11S (1997).

Secor, H. and J. Seeman, "The Preparation of 'Elongated' Nicotine Analogues," Heterocycles, 24(6): 1687-1698 (1986).

Silverstein, et al., "Cigarette Smoking and Ulcerative Colitis: A Case-Control Study," Mayo Clin. Proc., 69: 425-429 (1994).

Van Dijk, et al., "Nicotine Inhibits Cytokine Synthesis by Mouse Colonic Mucosa," European Journal of Pharmacology, 278: R11-R12 (1995).

Wallace, J. and B. Chin, "Inflammatory Mediators in Gastrointestinal Defense and Injury," Proc. Soc. Exp. Biol. Med., 214: 192-203 (1997).

Yanina, et al., Khim-Karm, 21(7): 808-811 (1987).

Zijlstra, et al., "Effect of Nicotine on Rectal Mucus and Mucosal Eicosanoids," Gui, 35: 247-251 (1994).

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INVENTOR(S)

: Gary Maurice Dull et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Specification:

Column 4, line 59, add comma after "-O(CR'R") , NR'R"

Column 8, line 44, "yrrolidine" should read, --pyrrolidine--

Column 10, line 6, "Snylett" should read --Synlett--

In the Claims:

Claim 1, column 42, line 63, "heterocycly" should read, --heterocyclyl--

Claim 15, column 44, line 35, "and X" should be added after --nitrogen--

Claim 18, column 46, line 16, --heterocycly-- should read, "heterocyclyl"

Signed and Sealed this

Third Day of October, 2006

JON W. DUDAS Director of the United States Patent and Trademark Office